



Solar energy for the environment republic of china



Overview

As of March 2025, for the first time ever, China's installed wind and solar capacity surpassed its thermal (fossil fuel-based) power capacity, a milestone that marks a significant pivot in the country's energy structure. Behind these numbers is a larger strategic shift. Wind and solar surpassed a quarter of China's electricity generation for the first time in April 2025. Its PV capacity crossed 1,000 gigawatts (one terawatt, 1 TW) in May 2025. The Trump administration has rolled back environmental protections and blocked green energy development, China is forging ahead. During a speech to global elites at the World Economic Forum in Davos last month, US President Donald Trump announced that while China sold windmills to "stupid people." The Chinese solar industry is at a pivotal point. Rapid solar capacity expansion overwhelms the grid, PV manufacturers compete for market shares, and then large target markets slap import tariffs on Chinese PV products, taking off their competitive edge. But to end its continued dependence on fossil fuels, it must now move. Once known as the world's largest emitter of carbon dioxide, China is now emerging as a global leader in renewable energy, with data from 2024 and 2025 highlighting a dramatic shift toward clean power. Guided by its goals of peaking carbon emissions before 2030 and achieving carbon neutrality by 2060, the country is rapidly reshaping its power.

Article Content

How China adds more renewable energy than any ...

China is adding more solar and wind power to its energy grid than any other economy - but that huge buildout has its challenges. Here's what we ...

How China Became the World's Leader on Renewable ...

China has achieved stunning growth in its installed renewable capacity over the last two decades, far outpacing the rest of the world. But to ...

China's green transformation: How it's becoming a global leader in ...

Beyond domestic policy, China's rise in clean energy is having a global impact. The country dominates the manufacturing of solar panels, wind turbines, and lithium-ion batteries, driving ...

Solar energy in China

So there is a lot of uncertainty in the Chinese solar industry, but there are also irrefutable facts: China needs to continue to expand domestic ...

Wind and solar generate over a quarter of China's electricity for the ...

China achieved a new milestone in its energy transition, with wind and solar power together generating a quarter (26%) of the country's electricity in April 2025, the highest monthly ...

China cashes in on clean energy as Trump clings to coal

The Trump administration has rolled back environmental protections and blocked green energy development, China is forging ahead.

Assessing China's wind-solar energy potential and complementarity ...

The study aids China's onshore wind and solar energy planning by stressing environmental adaptability integration into climate-resilient energy strategies.

Reveal the deployable solar energy potential and emission reduction ...

Lyu, F. et al. Quantifying the potential triple benefits of photovoltaic energy development in reducing emissions, restoring ecological resource, and alleviating poverty in China.

China: 40-Year Experience in Renewable Energy Development

In terms of energy generated, renewables accounted for about 27.9 percent of the country's total power generation in 2019.

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